

**Response to Notice of Non-Compliant Amendment
U.S. Appln. No. 10/685,407**

Atty. Dkt. No. Q76049

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): An application management system comprising:-

a plurality of controlled devices; and

an application server performing the installation and management of applications for the plurality of the-controlled devices by using a framework capable of providing integrated support to a variety of home network middleware.

2. (currently amended): The application management system as claimed in claim 1, wherein the home network middleware is selected from a group consisting of HAVi, UPnP, Jini and HWW.

3. (original): The application management system as claimed in claim 1, wherein the framework is an OSGi framework.

**Response to Notice of Non-Compliant Amendment
U.S. Appln. No. 10/685,407**

Atty. Dkt. No. Q76049

4. (original): The application management system as claimed in claim 1, wherein each of the controlled devices includes a home network middleware module for communicating with the application server.

5. (original): The application management system as claimed in claim 1, wherein each of the controlled devices includes positional information on an application file to be installed, and the application file is stored in a file server on the Internet.

6. (currently amended): The application management system as claimed in claim 5, wherein the application server extracts the positional information on the application file from the plurality of controlled devices and downloads the application file from the file server to install a relevant application in response to the extracted positional information.

7. (currently amended): The application management system as claimed in claim 5, wherein the application server includes a home network middleware module for communicating with the plurality of controlled devices and extracting the positional information on the application file from the plurality of controlled devices, an application loader module for downloading the application file from the file server in accordance with the extracted positional information on the application file, and an application management module for controlling operations of the home network middleware module and the application loader module.

**Response to Notice of Non-Compliant Amendment
U.S. Appln. No. 10/685,407**

Atty. Dkt. No. Q76049

8. (original): The application management system as claimed in claim 7, wherein the home network middleware module and the application loader module are bundled into the framework.

9. (currently amended): An application management system comprising a plurality of controlled devices and an application server, wherein:

a framework capable of providing integrated support to a variety of home network middleware is loaded on the application server; and

one~~each~~ of the plurality of controlled devices controls the application server and performs installation and management of applications for the plurality of controlled devices.

10. (currently amended): The application management system as claimed in claim 9, wherein the home network middleware is selected from a group consisting of HAVi, UPnP, Jini and HWW.

11. (original): The application management system as claimed in claim 9, wherein the framework is an OSGi framework.

**Response to Notice of Non-Compliant Amendment
U.S. Appln. No. 10/685,407**

Atty. Dkt. No. Q76049

12. (original): The application management system as claimed in claim 9, wherein an application file is stored in a file server on the Internet.

13. (currently amended): The application management system as claimed in claim 12, wherein the application server includes a home network middleware module for communicating with the plurality of controlled devices, an application loader module for downloading the application files from the file server under the control of the one of the controlled devices, and an application platform service module for controlling operations of the home network middleware module and the application loader module under the control of the one of the plurality of controlled devices.

14. (original): The application management system as claimed in claim 13, wherein the home network middleware module and the application loader module of the application server are bundled into the framework.

15. (currently amended): The application management system as claimed in claim 9, wherein each of the plurality of controlled devices includes a home network middleware module for communicating with the application server, and an application management module for installing a new application or managing an already installed application by controlling the application server.

**Response to Notice of Non-Compliant Amendment
U.S. Appln. No. 10/685,407**

Atty. Dkt. No. Q76049

16. (original): The application management system as claimed in claim 15, wherein the application management module determines a location where a new application file is downloaded and then requests the application server to install the new application.

17. (currently amended): A method for managing an application using an application management system including a plurality of controlled devices and an application server, comprising the steps of:

(1) detecting connection of the plurality of controlled devices with a home network by an application server loaded with a framework capable of providing integrated support to a variety of home network middleware; and

(2) installing the applications necessary for controlling the plurality of controlled devices by the application server.

18. (currently amended): The method as claimed in claim 17, wherein the home network middleware is selected from a group consisting of HAVi, UPnP, Jini and HWW.

19. (original): The method as claimed in claim 17, wherein the framework is an OSGi framework.

**Response to Notice of Non-Compliant Amendment
U.S. Appln. No. 10/685,407**

Atty. Dkt. No. Q76049

20. (original): The method as claimed in claim 17, wherein the framework provides Internet access services and home network middleware services.

21. (currently amended): The method as claimed in claim 17, wherein step (1) comprises the steps of:

extracting positional information on an application file necessary for controlling the plurality of controlled devices, by the application server;

downloading the application file from the file server in accordance with the extracted positional information by the application server; and

executing the downloaded application file and installing a relevant application by the application server.

22. (currently amended): The method as claimed in claim 21, wherein each of the plurality of controlled devices includes the positional information on the application file, and the application file is stored in a file server on the Internet.

23. (original): The method as claimed in claim 17, further comprising an application management step of executing, stopping, deleting, and updating the application installed in the

**Response to Notice of Non-Compliant Amendment
U.S. Appln. No. 10/685,407**

Atty. Dkt. No. Q76049

application server.

24. (currently amended): A method for managing an application using an application management system including a plurality of controlled devices and an application server, comprising the steps of:

- (1) searching for the application server with an application platform service module, by one of the plurality of the controlled devices; and
- (2) controlling the application server to install the application for the plurality of controlled devices, by the one of the plurality of controlled devices.

25. (original): The method as claimed in claim 24, wherein the application server is loaded with a framework capable of providing integrated support to a variety of home network middleware.

26. (currently amended): The method as claimed in claim 25, wherein the home network middleware is selected from a group consisting of HAVi, UPnP, Jini and HWW.

27. (original): The method as claimed in claim 25, wherein the framework is an OSGi framework.

**Response to Notice of Non-Compliant Amendment
U.S. Appln. No. 10/685,407**

Atty. Dkt. No. Q76049

28. (original): The method as claimed in claim 25, wherein the framework provides controlled device access services and home network middleware services.

29. (currently amended): The method as claimed in claim 24, wherein step (2) comprises the steps of:

determining whether it is necessary to install a new application, by the one of the plurality of controlled devices;

if it is necessary to install the new application, requesting the application server to install the new application, by the one of the plurality of controlled devices;

downloading a relevant application file from a file server according to the request for installing the new application; and

controlling the application server to install the new application, by the one of the plurality of controlled devices.

30. (original): The method as claimed in claim 24, further comprising an application management step of executing, stopping, deleting, and updating the application installed in the application server.